

STATE OF MISSOURI
DEPARTMENT OF NATURAL RESOURCES
MISSOURI CLEAN WATER COMMISSION



MISSOURI STATE OPERATING PERMIT

In compliance with the Missouri Clean Water Law, (Chapter 644 R.S. Mo. as amended, hereinafter, the Law), and the Federal Water Pollution Control Act (Public Law 92-500, 92nd Congress) as amended,

Permit No. MO-0004880

Owner: Department of the Army
Address: MO Highway 7 & MO Highway 78, Independence, MO 64051-1000

Continuing Authority: Same as above
Address: Same as above

Facility Name: USA, Lake City Army Ammunition Plant
Address: MO Highway 7 & MO Highway 78, Independence, MO 64051-1000

Legal Description: See page 2

Receiving Stream: See page 2
First Classified Stream and ID: See page 2
USGS Basin & Sub-watershed No.: See page 2

is authorized to discharge from the facility described herein, in accordance with the effluent limitations and monitoring requirements as set forth herein:

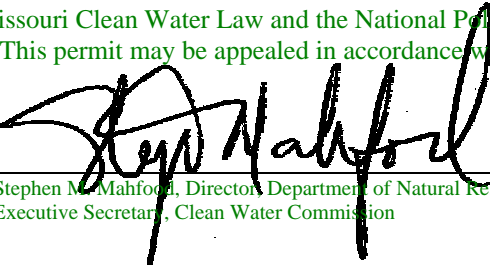
FACILITY DESCRIPTION

See page 2

This permit authorizes only wastewater discharges under the Missouri Clean Water Law and the National Pollutant Discharge Elimination System; it does not apply to other regulated areas. This permit may be appealed in accordance with Section 644.051.6 of the Law.

August 23, 2002
Effective Date

August 22, 2007
Expiration Date
MO 780-0041 (10-93)


Stephen M. Mahford, Director, Department of Natural Resources
Executive Secretary, Clean Water Commission

Jim Hull, Director of Staff, Clean Water Commission

FACILITY DESCRIPTION (continued)

Outfalls #003 & #004 - Eliminated due to connection to industrial sewers, which discharges to the Little Blue Valley Sewer District Atherton Plant.

Outfall #006 - Small Arms Ammunition - SIC #3482

Stormwater runoff/no treatment.

Flow is dependent upon precipitation.

Design flow is 0.5 MGD.

Legal Description: NW ¼, NE ¼, Sec. 1, T49N, R31W, Jackson County

Receiving Stream: Tributary to West Fire Prairie Creek (U)

First Classified Stream and ID: Little Blue River (P)(00422)

USGS Basin & Sub-watershed No.: (10300101-050003)

Outfall #007 - Small Arms Ammunition - SIC #3482

Stormwater runoff/no treatment.

Flow is dependent upon precipitation.

Design flow is 0.294 MGD.

Legal Description: NW ¼, SE ¼, Sec. 36, T50N, R31W, Jackson County

Receiving Stream: Tributary to West Fire Prairie Creek (U)

First Classified Stream and ID: Little Blue River (P)(00422)

USGS Basin & Sub-watershed No.: (10300101-050003)

Outfall #008 - Small Arms Ammunition - SIC #3482

Stormwater runoff/no treatment.

Flow is dependent upon precipitation.

Design flow is 0.026 MGD.

Legal Description: NW ¼, NE ¼, Sec. 32, T50N, R30W, Jackson County

Receiving Stream: Tributary to West Fire Prairie Creek (U)

First Classified Stream and ID: Fire Prairie Creek (P)(03412)

USGS Basin & Sub-watershed No.: (10300101-080001)

Outfall #009 - Never constructed. Outfall was dependent on vertical expansion of landfill. The department denied the vertical expansion of landfill and the outfall was not built. All stormwater that would have discharged through this outfall will be discharged through Outfall #008.

Outfall #010 - Small Arms Ammunition - SIC #3482

Constructed concrete leachate collection basin. No-discharge. Leachate is hauled to treatment facility.

Legal Description: SE ¼, NE ¼, Sec. 32, T50N, R30W, Jackson County

Receiving Stream: Tributary to West Fire Prairie Creek (U)

First Classified Stream and ID: Fire Prairie Creek (P)(03412)

USGS Basin & Sub-watershed No.: (10300101-080001)

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS					PAGE NUMBER 3 of 5	
					PERMIT NUMBER MO-0004880	
The permittee is authorized to discharge from outfall(s) with serial number(s) as specified in the application for this permit. The final effluent limitations shall become effective upon issuance and remain in effect until expiration of the permit. Such discharges shall be controlled, limited and monitored by the permittee as specified below:						
OUTFALL NUMBER AND EFFLUENT PARAMETER(S)	UNITS	FINAL EFFLUENT LIMITATIONS			MONITORING REQUIREMENTS	
		DAILY MAXIMUM	WEEKLY AVERAGE	MONTHLY AVERAGE	MEASUREMENT FREQUENCY	SAMPLE TYPE
<u>Outfalls #006 & #007</u> Flow	MGD	*		*	once/quarter**	24 hr. estimate
Settleable Solids (Notes 1 & 2)	mL/L/hr	1.5		1.0	once/quarter**	grab
Oil & Grease	mg/L	20		15	once/quarter**	grab
Copper, Total Recoverable	mg/L	*		*	once/quarter**	grab
Lead, Total Recoverable	mg/L	*		*	once/quarter**	grab
Zinc, Total Recoverable	mg/L	*		*	once/quarter**	grab
pH - Units	SU	***		***	once/quarter**	grab
<u>Outfall #008</u> Flow	MGD	*		*	once/quarter**	24 hr. estimate
Settleable Solids (Notes 1 & 2)	mL/L/hr	1.5		1.0	once/quarter**	grab
Oil & Grease	mg/L	20		15	once/quarter**	grab
pH - Units	SU	***		***	once/quarter**	grab
<u>Outfall #010 (Note 4)</u> Flow	MGD	*		*	once/each discharge	24 hr. estimate
Chemical Oxygen Demand	mg/L	120		90	once/each discharge	grab
Modified, Total Toxic Organics (Note 3)	mg/L	*		*	once/each discharge	grab
MONITORING REPORTS SHALL BE SUBMITTED <u>QUARTERLY</u> ; THE FIRST REPORT IS DUE <u>January 28, 2003</u> . THERE SHALL BE NO DISCHARGE OF FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.						
B. STANDARD CONDITIONS						
IN ADDITION TO SPECIFIED CONDITIONS STATED HEREIN, THIS PERMIT IS SUBJECT TO THE ATTACHED <u>Part I</u> STANDARD CONDITIONS DATED <u>October 1, 1980</u> , AND HEREBY INCORPORATED AS THOUGH FULLY SET FORTH HEREIN.						

MO 780-0010 (8/91)

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (continued)

- * Monitoring requirement only.
- ** Sample once per quarter in the months of January, April, July & October.
- *** pH is measured in pH units and is not to be averaged. The pH is limited to the range of 6.0-9.0 pH units.

Note 1 - Any overflow, increase in volume of a discharge or discharge from a bypass system caused by precipitation within any 24-hour period greater than or equal to the 2 year, 24-hour precipitation event (or snowmelt of equivalent volume) shall be exempt from the Total Suspended Solids limitation. All other limitations remain in effect at all times.

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (continued)

Note 2 - The Settleable Solids & Total Suspended Solids limitations are not absolute limits. These limits are the allowable increase in concentration of the off-site influent. If there is no influent from off-site, or if it is not sampled, then the permit limits are absolute limits. The results of all influent sampling must be reported in the quarterly discharge monitoring reports.

Note 3 - See Total Toxic Organics Page.

Note 4 - Outfall #010 must be sampled daily if it ever discharges. Any discharge will be considered a violation of this permit.

C. SPECIAL CONDITIONS

1. This permit may be reopened and modified, or alternatively revoked and reissued, to:
 - (a) Comply with any applicable effluent standard or limitation issued or approved under Sections 301(b)(2)(C) and (D), 304(b)(2), and 307(a) (2) of the Clean Water Act, if the effluent standard or limitation so issued or approved:
 - (1) contains different conditions or is otherwise more stringent than any effluent limitation in the permit; or
 - (2) controls any pollutant not limited in the permit.
 - (b) Incorporate new or modified effluent limitations or other conditions, if the result of a waste load allocation study, toxicity test or other information indicates changes are necessary to assure compliance with Missouri's Water Quality Standards.
 - (c) Incorporate new or modified effluent limitations or other conditions if, as the result of a watershed analysis, a Total Maximum Daily Load (TMDL) limitation is developed for the receiving waters which are currently included in Missouri's list of waters of the state not fully achieving the state's water quality standards, also called the 303(d) list.

The permit as modified or reissued under this paragraph shall also contain any other requirements of the Clean Water Act then applicable.

2. All outfalls must be clearly marked in the field.
3. Permittee will cease discharge by connection to areawide wastewater treatment system within 90 days of notice of its availability.
4. All activities performed to control erosion on the landfill site (seeding, mulching, terracing, etc.) shall be described and submitted along with the second quarter and fourth quarter Discharge Monitoring Reports. If no erosion controls are undertaken, indicate so on the reports.
5. This permit authorized the continued use of existing or new storm sewers to convey uncontaminated outfalls do not require monitoring or limitations.
6. All design and operating specifications and all Solid Waste Management approval conditions pertaining to water quality are hereby made part of this permit and shall apply throughout the life of this permit without regard to other conditions, permits, occurrences, etc.
7. This permit does not allow the discharge of leachate. All leachate shall be handled in accordance with the Solid Waste Disposal Area Operating Permit Report of Approval of Plans and Specifications (with conditions).

C. SPECIAL CONDITIONS (continued)

8. Changes in Discharges of Toxic Substances

The permittee shall notify the Director as soon as it knows or has reason to believe:

- (a) That any activity has occurred or will occur which would result in the discharge of any toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels:"
 - (1) One hundred micrograms per liter (100 µg/L);
 - (2) Two hundred micrograms per liter (200 µg/L) for acrolein and acrylonitrile; five hundred micrograms per liter (500 µg/L) for 2,5 dinitrophenol and for 2-methyl-4, 6-dinitrophenol; and one milligram per liter (1 mg/L) for antimony;
 - (3) Five (5) times the maximum concentration value reported for the pollutant in the permit application;
 - (4) The level established in Part A of the permit by the Director.
- (b) That they have begun or expect to begin to use or manufacture as an intermediate or final product or byproduct any toxic pollutant, which was not reported in the permit application.

9. Report as no-discharge when a discharge does not occur during the report period.

10. General Criteria. The following water quality criteria shall be applicable to all waters of the state at all times including mixing zones. No water contaminant, by itself or in combination with other substances, shall prevent the waters of the state from meeting the following conditions:

- (a) Waters shall be free from substances in sufficient amounts to cause the formation of putrescent, unsightly or harmful bottom deposits or prevent full maintenance of beneficial uses;
- (b) Waters shall be free from oil, scum and floating debris in sufficient amounts to be unsightly or prevent full maintenance of beneficial uses;
- (c) Waters shall be free from substances in sufficient amounts to cause unsightly color or turbidity, offensive odor or prevent full maintenance of beneficial uses;
- (d) Waters shall be free from substances or conditions in sufficient amounts to result in toxicity to human, animal or aquatic life;
- (e) There shall be no significant human health hazard from incidental contact with the water;
- (f) There shall be no acute toxicity to livestock or wildlife watering;
- (g) Waters shall be free from physical, chemical or hydrologic changes that would impair the natural biological community;
- (h) Waters shall be free from used tires, car bodies, appliances, demolition debris, used vehicles or equipment and solid waste as defined in Missouri's Solid Waste Law, section 260.200, RSMo, except as the use of such materials is specifically permitted pursuant to section 260.200-260.247.

D. OTHER REQUIREMENTS

- 1. Discharge of Wastewater from this facility must not alone or in combination with other sources cause the receiving streams to violate the water quality criteria specified in the Missouri Water Quality Standards.
- 2. In response to demands necessary to meet the requirements of the nations defense, changes in daily flow rate and weight of effluent discharged are authorized provided written notification is furnished 10 calendar days after the requirement for increased production is made know to the permittee. Effluent parameter concentrations are to be maintained at the levels stipulated.
- 3. There shall be no discharge from outfall #010, the leachate collection basin. All leachate shall be hauled to a wastewater treatment facility capable of handling and treating leachate.